

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. MP0389 / 13361-0061001		Application No. 10/734,440	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))				Applicant Sampath et al.			
				Filing Date December 11, 2003		Group Art Unit 2616	
U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1	5,345,599	09/1994	Paulraj, et al.			
	A2	6,351,499	02/2002	Paulraj et al.			
	A3	6,377,636	04/2002	Paulraj et al.			
	A4	2002/0056066	05/2002	Gesbert et al.			
	A5	6,452,981	09/2002	Ralcigh et al.			
	A6	2002/0183010	12/2002	Catreux et al.			
	A7	2002/0196942	12/2002	Onggosanusi et al.			
	A8	2003/0003863	01/2003	Thielecke et al.			
	A9	2003/0086486	05/2003	Graziano et al.			
	A10	2003/0100265	05/2003	Wang et al.			
	A11	6,618,591	09/2003	Kalliokulju et al.			
	A12	6,633,616	10/2003	Crawford			
	A13	2003/0231655	12/2003	Kelton et al.			
	A14	6,675,012	01/2004	Gray			
	A15	6,687,492	02/2004	Sugar et al.			
	A16	2004/0203456	10/2004	Onggosanusi et al.			
	A17	6,801,580	10/2004	Kadous			
	A18	6,826,528	11/2004	Wu et al.			
	A19	2005/0143027	06/2005	Kiddink et al.			
	A20	2005/0249157	11/2005	Qian et al.			
	A21	2005/0254592	11/2005	Naguib et al.			
	A22	7,046,963	05/2006	Luo et al.			
	A23	7,302,009	11/2007	Walton et al.			
	A24	7,408,976	08/2008	Narashinham et al.			
	A25	7,532,563	05/2009	Shirali et al.			

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney Docket No. MP0389 / 13361-0061001	Application No. 10/734,440
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Sampath et al.	
		Filing Date December 11, 2003	Group Art Unit 2616
(37 CFR §1.98(b))			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
	A26	WO 03/001726	01/03/2003	WIPO			Yes	No

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	A27	Goldsmith, et al., "Adaptive Coded Modulation for Fading Channels", May 1998, IEEE Transactions on Communications, Vol. 46, No. 5, pgs. 595-602.
	A28	Catreux, et al., "Adaptive Modulation and MIMO Coding for Broadband Wireless Data Networks", June 2002, IEEE Communications Magazine, pgs. 108-115.
	A29	Xin, et al., "Space-Time Constellation-Rotating Codes Maximizing Diversity and Coding Gains", 2001, IEEE, pgs. 455-459.
	A30	Foschini, et al., "On Limits of Wireless Communications in a Fading Environment when Using Multiple Antennas", 1998, Wireless Personal Communications, pgs. 311-335.
	A31	Tarokh, et al., "Space-Time Block Codes from Orthogonal Designs", July 1999, IEEE Transactions on Information Theory, Vol. 45, No. 5, pgs. 1456-1467.
	A32	IEEE Computer Society, "TGn Sync Proposal Technical Specification", IEEE Std 802.11n – First Edition, May 2005
	A33	IEEE Computer Society, "Part 16: Air Interface for Fixed Broadband Wireless Access Systems", IEEE Std 802.16-2004
	A34	IEEE Computer Society, "Draft 802.20 Permanent Document : System Requirements for IEEE 802.20 Mobile Broadband Wireless Access Systems – Version 14", IEEE 802.20-PD-06 , July 2004
	A35	Sampath, et al. U.S. Application Serial No. 10/834,745 , filed April 28, 2004 (Attorney Docket No.: MP0448/13361-0089001).
	A36	Shirali et al., U.S. Application Serial No. 10/998,838 , filed November 12, 2004 (Attorney Docket No. MP0550/13361-0119001).
	A37	Narasimhan et al., U.S. Application Serial No. 10/620,024 , filed July 14, 2003 (Attorney Docket No. MP0286/13361-0047001)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	